

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	89	Application No.	Applicant(s)
AR 1 5 2010 W		10/553,328 Examiner	GAO ET AL.  Art Unit
<b>Period fo</b> A SH WHIC	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING	PLY IS SET TO EXPIRE <u>3</u> M DATE OF THIS COMMUNI	IONTH(S) OR THIRTY (30) DAYS, CATION.
- Exte after - If NO - Failu Any	nsions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication, period for reply is specified above, the maximum statutory per re to reply within the set or extended period for reply will, by steply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	t 1.136(a). In no event, however, may a iod will apply and will expire SIX (6) MON atute, cause the application to become Al	reply be timely filed  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).
Status			
1) 又	Responsive to communication(s) filed on 0	1 August 2009.	
		his action is non-final.	
/	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
,—	closed in accordance with the practice unde		
Dispositi	on of Claims		
·	Claim(s) 70-92 is/are pending in the applica	ition	
•	4a) Of the above claim(s) 79-92 is/are withd		
	Claim(s) is/are allowed.	iami irom conditionation.	
	Claim(s) 70-75 is/are rejected.		
·	Claim(s) <u>76-78</u> is/are objected to.		
•	Claim(s) are subject to restriction an	d/or election requirement.	
Applicati	on Papers		
_	The specification is objected to by the Exam	iner	
•	The drawing(s) filed on <u>14 October 2005</u> is/s		bjected to by the Examiner
.0/23	Applicant may not request that any objection to		·
	Replacement drawing sheet(s) including the cor		
11)	The oath or declaration is objected to by the	·	• • • • • • • • • • • • • • • • • • • •
Priority (	ınder 35 U.S.C. § 119		
_	Acknowledgment is made of a claim for fore	ian priority under 35 H.S.C. 8	\$ 119(a\/d\ or (f)
-	All b) Some * c) None of:	ight phonty under 55 0.5.0. §	3 119(a)-(u) 01 (1).
٠,	1. Certified copies of the priority docum	ents have been received.	
	2. Certified copies of the priority docum		application No.
	3. Copies of the certified copies of the p		
	application from the International Bur	•	•
* 5	See the attached detailed Office action for a	list of the certified copies not	received.
Attachmen	Ne)		
	e of References Cited (PTO-892)	4) 🗍 Interview 9	Summary (PTO-413)
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)		s)/Mail Date nformal Patent Application

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# **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election with traverse of Group I (claims 70-78) in the reply filed on August 4, 2009 is acknowledged. The traversal is on the ground(s) that Groups I-III share enough of a substantial common core that it would not be unduly burdensome for the examiner to search the three groups simultaneously. This is not found persuasive because **A**, **R**<sub>2</sub> and **B** are variables; P is the only element required by all three groups. Thus, the three groups do not share a substantial common chemical core. Search burden is not a requirement.

The requirement is still deemed proper and is therefore made FINAL.

2. Claims 79-92 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on August 4, 2009.

# Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 70-75 are rejected under 35 U.S.C. 103(a) as being unpatentable over Durand et al. Nucleic Acids Research (1990), Vol. 18, pages 6353-6359 (Durand).

Durand teaches phosphoramidite 4 wherein  $A = OCH_2CH_2$ ; n = 6;  $R_2 = DMT$ ; m = 0 and  $R_3 = CH_2CH_2CN$  (Scheme 1).

Durand differs from the instantly claimed invention in that Durand teaches a hydroxyl protecting group (DMT) for R<sub>2</sub>; however, removal of a conventional protecting group by conventional means to yield the parent compound is prima facie obvious.

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## Conclusion

7. Claims 70-92 are pending. Claims 79-92 are withdrawn from consideration. Claims 70-75 are rejected. Claims 76-78 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## **Contacts**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick T. Lewis whose telephone number is 571-272-0655. The examiner can normally be reached on Monday - Friday 10 am to 3 pm (Maxi Flex).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia A. Jiang can be reached on 571-272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Patrick T. Lewis/ Primary Examiner, Art Unit 1623

/PL/